

Submitted for recognition as an American National Standard

FEDERAL SUPPLY CLASS

REV. C

AS137

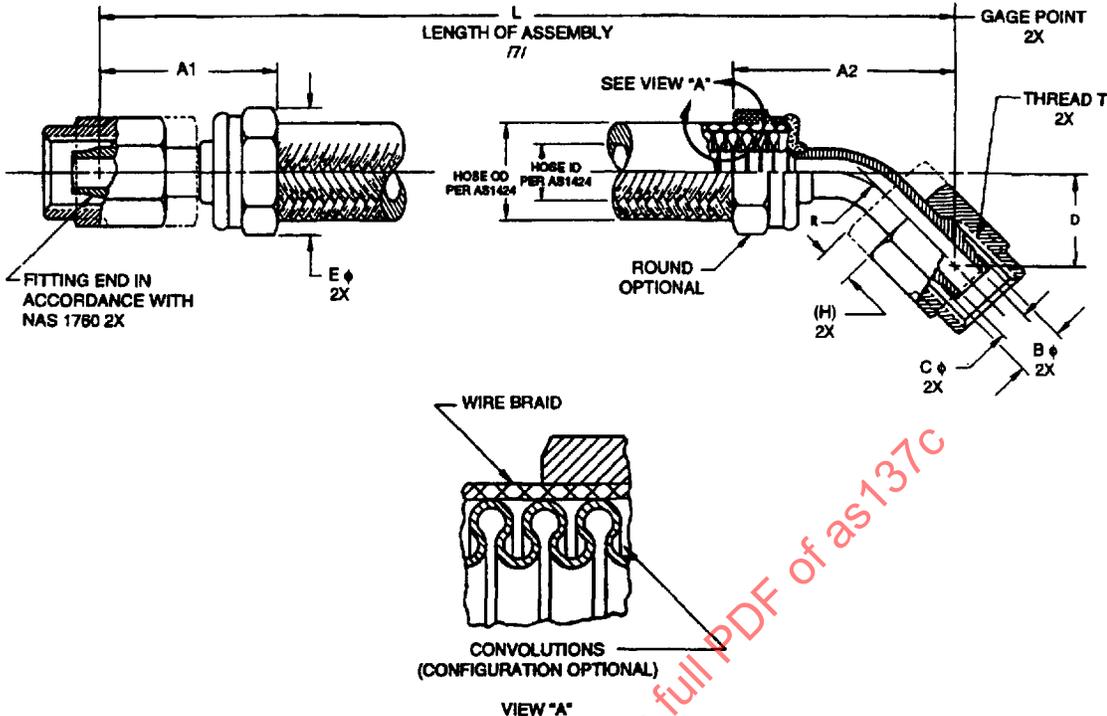


FIGURE 1 - HOSE ASSEMBLY

TABLE 1 - ASSEMBLY DIMENSIONS

HOSE ASSEMBLY SIZE CODE	HOSE SIZE (REF)	A ₁ MAX	A ₂ MAX	B GAGE BASIC	C MIN THRU /B/	D MIN	D MAX	E MAX	(H) NOM	R (REF)	THREAD T PER AS8879 (ISO 3161) (REF)
04	.250	1.25	1.62	.2930	.141	.49	.61	.900	.40	.250	.4375-20UNJF-3B
05	.312	1.38	1.75	.3500	.197	.51	.63	1.100	.40	.312	.5000-20UNJF-3B
06	.375	1.38	1.88	.4120	.250	.54	.73	1.200	.40	.375	.5625-18UNJF-3B
08	.500	1.56	2.12	.5600	.360	.67	.92	1.300	.47	.500	.7500-16UNJF-3B
10	.625	1.75	2.38	.6730	.455	.83	1.08	1.500	.53	.625	.8750-14UNJF-3B
12	.750	1.94	2.69	.8100	.568	.86	1.11	1.740	.53	.750	1.0625-12UNJ-3B
16	1.000	2.12	3.19	1.0620	.760	.90	1.15	2.300	.53	1.000	1.3125-12UNJ-3B
20	1.250	2.38	3.69	1.3160	.920	.94	1.32	2.850	.54	1.250	1.6250-12UNJ-3B

TABLE 2 - ASSEMBLY LENGTH TOLERANCE

HOSE ASSEMBLY LENGTH	LENGTH TOLERANCE
UNDER 10 in	±.062 in
10 TO 36 in, EXCLUSIVE	±.125 in
36 TO 50 in, EXCLUSIVE	±.250 in
50 in AND OVER	±1%

CUSTODIAN: SAE G-3/G-3D

PROCUREMENT SPECIFICATION: /2/ AS1424



AEROSPACE STANDARD

HOSE ASSEMBLY, METAL - MEDIUM PRESSURE, FLARELESS, WELDED, STRAIGHT TO 45°

AS137
SHEET 1 OF 3

REV. C

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REV. C
AS137

TABLE 3 - HOSE ASSEMBLY PHYSICAL CHARACTERISTIC

HOSE SIZE CODE	70 °F /5/	70 °F /5/	70 °F /5/
	OPERATING PRESSURE PSI MAX	PROOF PRESSURE PSI MIN	BURST PRESSURE PSI MIN
04	2000	3000	8000
05	1800	2700	7200
06	1600	2400	6400
08	1400	2100	5600
10	1200	1800	4800
12	1050	1575	4200
16	800	1200	3200
20	550	825	2200

TABLE 4 - SPHERICAL BALL SIZE FOR DETERMINING MINIMUM HOSE ASSEMBLY ID /8/

HOSE SIZE	STRAIGHT FITTING	ELBOW FITTING
04	.127	.120
05	.177	.167
06	.225	.212
08	.324	.306
10	.410	.387
12	.511	.483
16	.684	.646
20	.828	.782

TABLE 5 - WEIGHTS (NOM)

HOSE SIZE	HOSE LB/IN	STANDARD FITTING (LB)	
		STRAIGHT	45° ELBOW
-04	.016	.05	.05
-05	.018	.07	.08
-06	.020	.08	.09
-08	.028	.13	.14
-10	.038	.20	.22
-12	.042	.39	.42
-16	.058	.52	.61
-20	.072	.79	.97

NOTES:

- /1/ MATERIALS:
 - a. CLASS "N": INNERTUBE - NICKEL ALLOY TYPE 625
ALL OTHER COMPONENTS - 321 CORROSION RESISTANT STEEL
 - b. CLASS "S": ALL COMPONENTS - 321 CORROSION RESISTANT STEEL
- /2/ THIS HOSE ASSEMBLY STANDARD SHALL BE QUALIFIED IN ACCORDANCE WITH PROCUREMENT SPECIFICATION AS1424; EXCEPT FLEXURE PRESSURE CYCLING ENDURANCE REQUIREMENT IS NOT APPLICABLE FOR SIZE -04 CLASS "S". SEE NOTE /13/. USERS OF THIS STANDARD ARE ADVISED TO CONTROL SOURCE APPROVAL(S) BY STANDARD PAGE SUPPLEMENT SHEET OR SIMILAR MEANS.

 <p>The Engineering Society For Advancing Mobility Land Sea Air and Space INTERNATIONAL 400 Commonwealth Drive, Warrendale, PA 15096-0001</p>	AEROSPACE STANDARD	AS137 SHEET 2 OF 3	REV. C
	HOSE ASSEMBLY, METAL - MEDIUM PRESSURE, FLARELESS, WELDED, STRAIGHT TO 45°		